

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (original): A film production process comprising the following steps (1) and (2):

Step (1):

a step of coating a polymer having a double bond within the molecule on a support, and

Step (2):

a step of placing the support coated with the polymer in a solvent incapable of dissolving the polymer coated, to cause a crosslinking reaction of the double bond within the molecule and thereby form a film.

2. (original): The film production process as claimed in Claim 1, wherein an α,β -unsaturated dibasic acid derivative is present in the solvent used in the step (2).

3. (original): The film production process as claimed in Claim 2, wherein in the step (2), the polymer having a double bond within the molecule reacts with the α,β -unsaturated dibasic acid derivative.

4. (original): The film production process as claimed in Claim 1, wherein the polymer having a double bond within the molecule is an unsaturated carboxylic acid-diene monomer copolymer and/or an unsaturated carboxylic anhydride-diene monomer copolymer.

5. (original): The film production process as claimed in Claim 1, wherein the polymer having a double bond within the molecule is a poly(butadiene-maleic acid) and/or a poly(butadiene-maleic anhydride).

6. (original): The film production process as claimed in Claim 2 or 3, wherein the polymer having a double bond within the molecule is one or more member selected from an unsaturated carboxylic acid-diene monomer copolymer, an unsaturated carboxylic anhydride-diene monomer copolymer, a butadiene copolymer and a polybutadiene.

7. (original): The film production process as claimed in Claim 2 or 3, wherein the polymer having a double bond within the molecule is one or more member selected from a poly-(butadiene-maleic acid), a poly(butadiene-maleic anhydride) and a polybutadiene.

8. (currently amended): The film production process as claimed in ~~any one of Claims 2, 3, 6 and 7~~ Claim 2 or 3, wherein the α,β -unsaturated dibasic acid derivative is a maleic anhydride and/or maleimide.

9. (original): The film production process as claimed in Claim 8, wherein the α,β -unsaturated dibasic acid derivative is a maleic anhydride.

10. (currently amended): The film production process as claimed in any one of Claims 1 ~~to 9~~ to 5, wherein the support is a spherical porous particle having a particle size of 1 to 30 μm .

11. (original): The film production process as claimed in Claim 10, wherein the spherical porous particle is a silica gel or a polyvinyl ether gel.

12. (currently amended): The film production process as claimed in Claims 1 ~~to 11~~ to 5, wherein the film is a weakly acidic cation exchanger.

13. (currently amended): A film produced by the production process in any one of ~~Claim 1 to 12~~ Claims 1 to 5.

14. (currently amended): A weakly acidic cation exchanger produced by the production process in any one of Claims 1 ~~to 12~~ to 5.

15. (original): A column for cation chromatography, using the weakly acidic cation exchanger of Claim 14.